## OLIGONUCLEOTIDE INHIBITORS OF bcl-xL

## Abstract of the Invention

This invention provides an antisense oligonucleotide or analog thereof comprising 10 or more contiguous bases or base analogs from the sequence of bases of sequence A, B, C, D, E, F, G, H, I, J, K, L, or M of Figure 1. invention also provides the above-described antisense wherein the nucleotide sequence oligonucleotides, comprises nucleotide sequence A, A', B, C, C', D, E, E,, F, G, G', H, H', I, I', J, K, K', L, L', M, or M' of This invention also provides the Figures 2A and 2B. above-described antisense oligonucleotides, wherein the encapsulated in a liposome is oligonucleotide This invention also provides the abovenanoparticle. antisense oligonucleotides, wherein the described phosphate backbone comprises phosphorothicate bonds. addition, this invention provides a method of treating cancer, comprising introducing into a tumor cell an effective amount of the the above-described antisense oligonucleotide, thereby reducing the levels of bcl-xL protein produced and treating cancer. This invention also provides the above-described methods, wherein the introducing comprises using porphyrin or lipofectin as This invention also provides the a delivery agent. above-described pharmaceutical compositions, wherein the oligonucleotide is encapsulated in a liposome This invention further provides the nanoparticle. above-described pharmaceutical compositions, wherein the pharmaceutical composition comprises tetra meso-(4methylpyridyl)porphine or tetra meso-(anilinium)porphine or a combination thereof.

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